

## CAS/STN FILE 'REGISTRY' ENTERED AT 07:39:37 ON 27 SEP 2005

L1	10	S	POLYACETYLENE
L2	126	S	ACETYLENE HOMOPOLYMER
L3	2	S	POLYPHENYLACETYLENE
L4	2	S	BIPHENYLACETYLENE
L5	642	S	PHENYLACETYLENE
L6	27	S	POLYANILINE
L7	72	S	ANILINE HOMOPOLYMER
L8	185	S	DIPHENYLACETYLENE
L9	289	S	PPV OR PHENYLENE VINYLENE
L10	2	S	POLYTHIOPHENE
L11	377	S	THIOPHENE HOMOPOLYMER
L12	4494	S	PORPHYRIN?
L13	0	S	POLYPORPHYRIN?
L14	10	S	THIOL AND L12
L15	2	S	METALLOCEN?
L16	54733	S	FERROCEN?
L17	1887	S	POLY? AND L16
L18	694	S	PHTHALOCYANINE? AND POLY?
L19	6	S	POLYPHTHALOCYANINE?
L20	0	S	POLYMETALLOCEN?
L21	4	S	POLYFERROCEN?
L22	1782	S	POLY? AND CENE?
L23	21	S	H/MF
L24	1	S	PROTON/CN
L25	19	S	H2/MF

## FILE 'HCAPLUS' ENTERED AT 07:47:19 ON 27 SEP 2005

E CONDUCTING POLYMERS/CT

L26 94921 S "CONDUCTING POLYMERS"/CT OR "ELECTRIC  
CONDUCTORS, POLYMERIC"/CT OR POLYANILINES/CT OR ?CONDUCT?(1A) (?  
POLYMER? OR ?MONOMER? OR ?PLASTIC?) OR ?METALLOCENE? OR  
?POLYTHIOPHEN? OR ?POLYACETYLENE?

## FILE 'STNGUIDE' ENTERED AT 07:49:45 ON 27 SEP 2005

## FILE 'HCAPLUS' ENTERED AT 07:51:18 ON 27 SEP 2005

L27 26259 S ?POLYPHENYLACETYLENE? OR ?POLYDIPHENYLACETYL  
EN? OR ?POLYANILINE? OR PPV OR ?PHENYLENEVINYLENE? OR ?POLYTHIO  
PHENE?

## FILE 'STNGUIDE' ENTERED AT 07:51:46 ON 27 SEP 2005

## FILE 'HCAPLUS' ENTERED AT 07:53:34 ON 27 SEP 2005

L28 12606 S ?POLYPORPHYRIN? OR ?POLYMETALLOCEN? OR  
?POLYFERROCEN? OR ?POLYPHTHALOCYANIN? OR ?POLYVINYLENE? OR  
?POLYPYRROL? OR ?POLYDIPHENYLACETY?

L29 329146 S (L1 OR L2 OR L3 OR L4 OR L5 OR L6 OR L7 OR  
L8 OR L9 OR L10 OR L11 OR L12 OR L13 OR L14 OR L15 OR L16 OR  
L17 OR L18 OR L19 OR L20 OR L21 OR L22) OR (L26 OR L27 OR L28)

L30 11176 S ((L23 OR L24 OR L25) OR PROTONS OR (H OR  
HYDROGEN) (1A) (1 OR CHARGE## OR RADICAL OR CATION### OR ION##  
OR NUCLEUS)) AND L29

## FILE 'REGISTRY' ENTERED AT 07:57:33 ON 27 SEP 2005

L31 6329 S DEUTERIUM OR TRITIUM  
 L32 542 S L31 AND 1/ELC

## FILE 'HCAPLUS' ENTERED AT 07:58:30 ON 27 SEP 2005

L33 449 S L32 AND L29

## FILE 'STNGUIDE' ENTERED AT 07:58:37 ON 27 SEP 2005

## FILE 'HCAPLUS' ENTERED AT 08:00:01 ON 27 SEP 2005

L34 1336 S (IRRADIAT? OR RADIAT? OR BEAM OR BOMBARD###  
 ## OR CATION#### OR POSITIVE##(2A)(ION### OR CHARGE##)) AND  
 (L33 OR L30)

## FILE 'HCAPLUS' ENTERED AT 08:00:56 ON 27 SEP 2005

L35 83533 S (IRRADIAT? OR RADIAT? OR BEAM OR BOMBARD###  
 ## OR CATION#### OR PROTON OR HYDROGEN OR H2 OR H OR DEUTERIUM  
 OR DEUTERAT? OR TRITIUM OR TRITIAT?)(3A)SURFACE  
 L36 37 S L34 AND L35

## FILE 'HCAPLUS' ENTERED AT 08:01:31 ON 27 SEP 2005

L37 92313 S (IRRADIAT? OR RADIAT? OR BEAM OR BOMBARD##### OR CATION####  
 OR PROTON OR HYDROGEN OR H2 OR H OR DEUTERIUM OR DEUTERAT? OR TRITIUM OR  
 TRITIAT?)(3A)?POLYMER?  
 L38 235 S L34 AND L37  
 L39 2132 S L35 AND L37  
 L40 34 S (L33 OR L34 OR L36 OR L38 OR L39) AND  
 ?POLYMER?(4A)(?INSULAT? OR DIELEC#####)  
 L41 1401 S (L33 OR L34 OR L36 OR L38 OR L39) AND ?POLYMER?(4A)SURFACE  
 L42 107690 S (FORM#### OR CREAT#### OR MAK#### OR CHANG#### OR  
 FABRICAT#### OR PROCESS####)(6A)(?INSULAT? OR DIELEC#####)  
 L43 21 S (L33 OR L34 OR L36 OR L38 OR L39) AND L42  
 L44 26719 S (IRRADIAT? OR RADIAT?)(3A)?POLYMER?  
 L45 22587 S (IRRADIAT? OR RADIAT?)(3A)SURFACE?  
 L46 902 S (L33 OR L34 OR L36 OR L38 OR L39) AND L44 AND L45  
 L47 75335 S (H OR H2 OR HYDROGEN##### OR DEUTER#####  
 OR TRITI##### OR PROTON##)(6A)?POLYMER?  
 L48 65771 S (H OR H2 OR HYDROGEN##### OR DEUTER#####  
 OR TRITI##### OR PROTON##)(6A)SURFACE  
 L49 32 S L46 AND L47  
 L50 27 S L46 AND L48  
 L51 124 S L36 OR L40 OR L43 OR L49 OR L50  
 L52 37012 S (?INSULAT? OR DIELEC?)(7A)SURFACE  
 L53 36483 S (?INSULAT? OR DIELEC?)(7A)?POLYMER?  
 L54 89107 S SURFACE(7A)?POLYMER?  
 L55 18 S L51 AND L52  
 L56 36 S L51 AND L53  
 L57 74 S L51 AND L54  
 L58 22 S L56 AND L57  
 L59 26 S L55 OR L58  
 L60 5 S (L1 OR L2 OR L3 OR L4 OR L5 OR L6 OR L7 OR L8 OR L9 OR L10  
 OR L11 OR L12 OR L13 OR L14 OR L15 OR L16 OR L17 OR L18 OR L19 OR L20 OR L21 OR L22  
 OR L23 OR L24 OR L25) AND L59  
 L61 62361 S ((L23 OR L24 OR L25) OR L32 OR H2 OR  
 HYDROGEN OR H OR DEUTERIUM OR TRITIUM)(7A)?POLYMER?

FILE 'HCAPLUS' ENTERED AT 08:01:31 ON 27 SEP 2005

L62 2831 S L33 OR L36 OR (L38 OR L39 OR L40 OR L41) OR L43 OR L46 OR  
 (L49 OR L50 OR L51) OR (L55 OR L56 OR L57 OR L58 OR L59 OR L60)  
 L63 474 S L61 AND L62  
 L64 166 S ((L1 OR L2 OR L3 OR L4 OR L5 OR L6 OR L7 OR L8 OR L9 OR L10  
 OR L11 OR L12 OR L13 OR L14 OR L15 OR L16 OR L17 OR L18 OR L19 OR L20 OR L21 OR  
 L22) OR L26) AND L63  
 L65 89 S ((L23 OR L24 OR L25) OR L32) AND L64  
 L66 89 S L65 NOT L60  
 L67 1 S L66 AND (DIELEC##### OR ?INSULAT?) (7A) (FILM OR ?LAYER?)  
 L68 88 S L66 NOT L67  
 L69 8 S L68 AND H2  
 L70 11 S L68 AND (HYDROGEN OR H) (5A) (PRESEN### OR  
 ATMOSPHER? OR AMBIENT OR GAS#### OR VAPOR#### OR VAPOUR####)  
 L71 18 S (L69 OR L70)  
 L72 30483 S (RADIAT##### OR IRRADIAT#####) (4A)?POLYMER?  
 L73 1914 S L33 OR L38 OR L40 OR L43 OR L46 OR (L49 OR L50 OR L51) OR  
 (L55 OR L56 OR L57 OR L58 OR L59) OR (L63 OR L64 OR L65 OR L66 OR L67 OR L68)  
 L74 24 S L60 OR L67 OR L71  
 L75 1890 S L73 NOT L74  
 L76 86 S L75 AND (HYDROGEN OR H) (5A) (EXPOS##### OR MASK#### OR  
 UNCOVER#### OR PRESEN### OR ATMOSPHER? OR AMBIENT OR GAS#### OR VAPOR#### OR  
 VAPOUR####)  
 L77 233 S L75 AND ?POLYMER? (5A) (EXPOS##### OR MASK#### OR UNCOVER####  
 OR PRESEN### OR ATMOSPHER? OR AMBIENT OR GAS#### OR VAPOR#### OR VAPOUR####)  
 L78 164 S L75 AND ?SURFACE? (5A) (EXPOS##### OR MASK#### OR UNCOVER####  
 OR PRESEN### OR ATMOSPHER? OR AMBIENT OR GAS#### OR VAPOR#### OR VAPOUR####)  
 L79 23 S L75 AND ?CONDUCT? (5A) (EXPOS##### OR MASK#### OR UNCOVER####  
 OR PRESEN### OR ATMOSPHER? OR AMBIENT OR GAS#### OR VAPOR#### OR VAPOUR####)  
 L80 7 S L75 AND ?INSULAT? (5A) (EXPOS##### OR MASK#### OR UNCOVER####  
 OR PRESEN### OR ATMOSPHER? OR AMBIENT OR GAS#### OR VAPOR#### OR VAPOUR####)  
 L81 2 S L75 AND DIELEC? (5A) (EXPOS##### OR MASK#### OR UNCOVER#### OR  
 PRESEN### OR ATMOSPHER? OR AMBIENT OR GAS#### OR VAPOR#### OR VAPOUR####)  
 L82 439 S L75 AND (CONVER? OR RENDER? OR CHANG? OR TRANSFORM? OR  
 CREAT?)  
 L83 95 S (L76 OR L77 OR L78 OR L79 OR L80 OR L81) AND L82  
 L84 32 S L76 AND L77  
 L85 8 S L76 AND L77 AND L78  
 L86 5 S L76 AND L77 AND L79  
 L87 1 S L76 AND L78 AND L79  
 L88 3 S L77 AND L78 AND L79  
 L89 14 S L83 AND L84  
 L90 20 S L75 AND (?DIELEC? OR ?INSULAT?) (7A)?CONDUCT?  
 L91 62 S (L79 OR L80 OR L81) OR (L85 OR L86 OR L87 OR L88 OR L89 OR  
 L90)  
 L92 62 S L91 NOT L74  
 L93 9 S L92 AND (DIELEC? AND INSULAT?)  
 L94 12 S L92 AND (DIELEC? AND ?CONDUCT?)  
 L95 21 S L92 AND (?INSULAT? AND ?CONDUCT?)  
 L96 26 S (L93 OR L94 OR L95)  
 L97 25436 S (?CONDUCT? OR DIELEC? OR ?INSULAT?) (3A)?PATTERN?  
 L98 839 S (L26 OR L27 OR L28 OR L29 OR L30) AND L97  
 L99 203 S (L32 OR L33 OR L34 OR L35 OR L36) AND L97

## FILE 'HCAPLUS' ENTERED AT 08:01:31 ON 27 SEP 2005

L100 9280 S (L37 OR L38 OR L39 OR L40 OR L41 OR L42 OR L43 OR L44 OR L45  
 OR L46 OR L47 OR L48 OR L49 OR L50 OR L51 OR L52 OR L53 OR L54 OR L55 OR L56 OR L57  
 OR L58 OR L59) AND L97  
 L101 215 S (L61 OR L62 OR L63 OR L64 OR L65 OR L66 OR L67 OR L68 OR L69  
 OR L70 OR L71 OR L72 OR L73 OR L74 OR L75 OR L76 OR L77 OR L78 OR L79) AND L97  
 L102 4 S (L82 OR L83 OR L84 OR L85 OR L86 OR L87 OR  
 L88 OR L89 OR L90 OR L91 OR L92) AND L97  
 L103 83406 S ?POLYMER?(6A)?SURFACE?  
 L104 251 S (L98 OR L99 OR L100 OR L101 OR L102) AND L103  
 L105 50 S L74 OR L96  
 L106 49 S (L80 OR L81) OR (L85 OR L86 OR L87 OR L88) R L89 OR L90 OR  
 L102  
 L107 25 S L106 NOT L105  
 L108 12 S L103 AND L107  
 L109 62 S L105 OR L108  
 L110 262 S (L104 OR L107) NOT L109  
 L111 4 S L110 AND CONDUCT#####(7A)DIELEC?  
 L112 258 S L110 NOT L111  
 L113 56 S L112 AND CONDUCT?/TI  
 L114 17 S L112 AND INSULAT?/TI  
 L115 5 S L112 AND DIELEC?/TI  
 L116 94 S L112 AND PATTERN?/TI  
 L117 1 S (L113 OR L114 OR L115 OR L116) AND (H OR H2 OR HYDROGEN? OR  
 PROTON? OR DEUTER? OR TRITI? OR BEAM? OR IRRADIAT? OR RADIAT? OR BOMBARD?)/TI  
 L118 13050 S CONDUCT?/TI AND POLYMER?/TI  
 L119 641 S L118 AND (H OR H2 OR HYDROGEN? OR PROTON? OR DEUTER? OR  
 TRITI? OR BEAM? OR IRRADIAT? OR RADIAT? OR BOMBARD?)/TI  
 L120 56 S L119 AND (DIELEC? OR INSULAT?)  
 L121 67 S L111 OR L109 OR L117  
 L122 52 S L120 NOT L121  
 L123 3 S L122 AND (L23 OR L24 OR L25)  
 L124 0 S L122 AND L32

## FILE WPIX JAPIO INSPEC JICST-EPLUS NTIS ENTERED AT 08:42:11 ON 27 SEP 2005

L125 16229 S CONDUCT?/TI AND POLYMER?/TI  
 L126 663 S L125 AND (H OR H2 OR HYDROGEN? OR PROTON?  
 OR DEUTER? OR TRITI?)/TI  
 L127 1260 S L125 AND (INSULAT? OR DIELEC?)/TI  
 L128 7 S L126 AND L127  
 L129 3 S (L126 OR L127) AND (AMD OR ADVANCED MICRO?)/PA,CS  
 L130 1 S (L126 OR L127) AND OKORO?/AU,IN  
 L131 0 S (L126 OR L127) AND UZOD?/AU,IN  
 L132 0 S (L126 OR L127) AND YUDAN?/AU,IN  
 L133 3 S (L129 OR L130) NOT L128